



# LAFAYETTE AVE SAFETY IMPROVEMENTS

## Traffic Calming and Bike Lane

Presented to Brooklyn Community Board 2  
March 2017



## Project Update

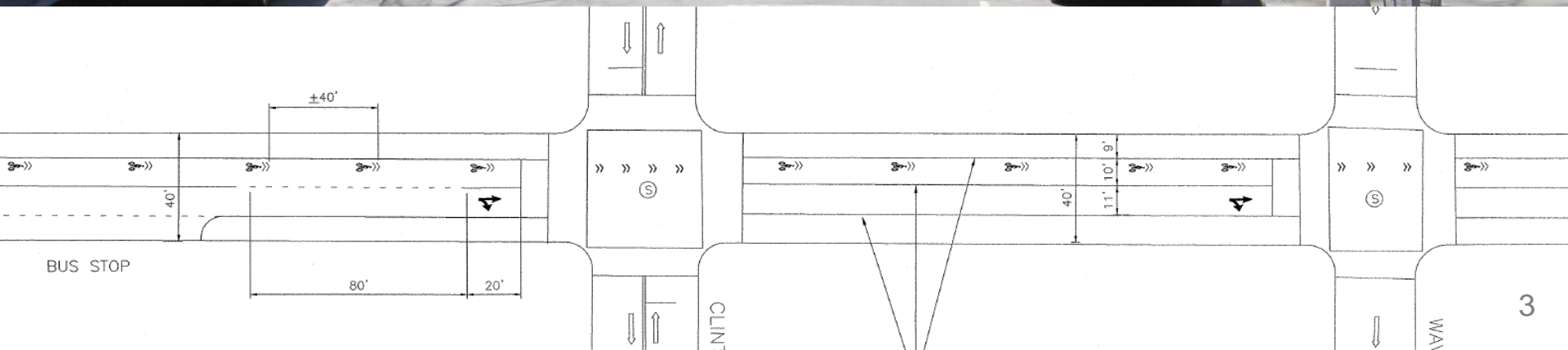
1. Before Conditions
2. Initial Implementation – June 2016
3. Design Refinements – Summer/ Fall 2016
  1. Left Turn Lane on St James Pl
  2. Left Turn Lane to Classon Ave
  3. Curb Regulation Updates
  4. Signal Timing Changes
4. Data Comparison
  1. Travel Time
  2. Traffic Volumes
  3. Bicycle Volumes





## 1. Before Conditions

- 2 moving lanes
- 2 parking lanes
- Shared lane bicycle route
- 60 second signal cycles





## 1. Before Conditions

### Issues

- Off-peak speeding due to excess roadway space
- Lack of dedicated space for 500+ bikes/day (12-hour count, May 2015)

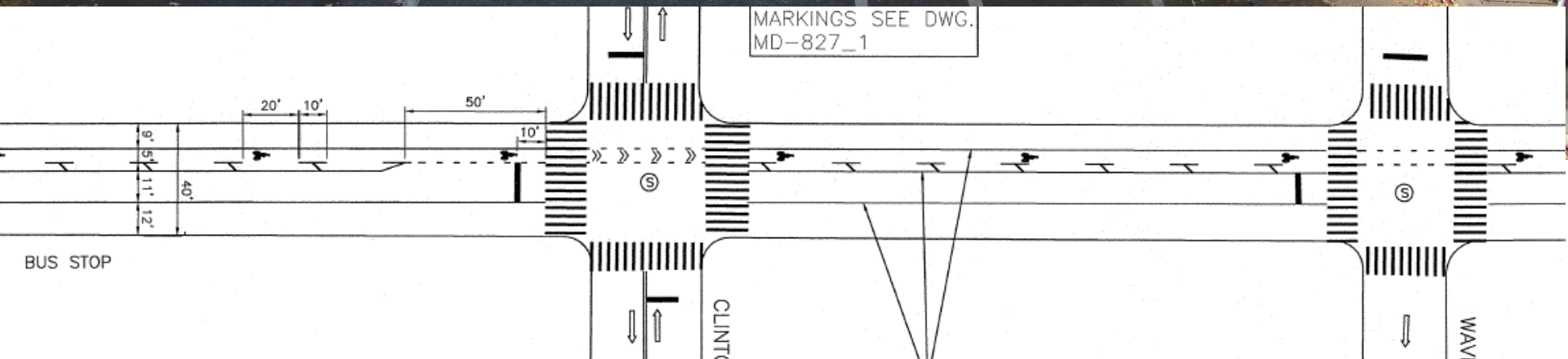




## 2. Initial Implementation – June 2016

### Traffic Calming and Bike Facility Upgrade

- Added buffered bicycle lane
- Changed to 90 second signal cycles
- Removed 1 moving lane
- Maintained 2 parking lanes

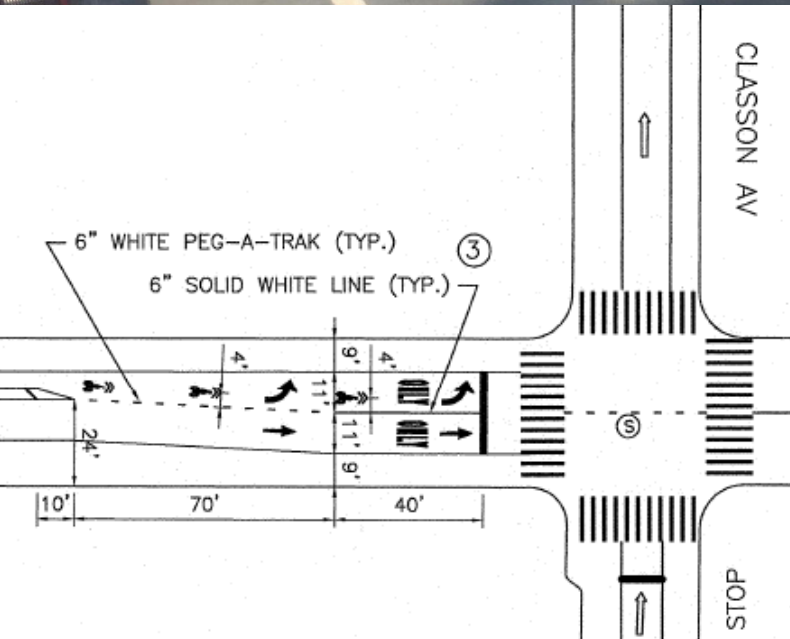




### 3. Design Refinements – Summer/ Fall 2016

#### Left Turn Lane to Classon Ave

- Accommodates left turning vehicles in shorter time with no change to parking or signals

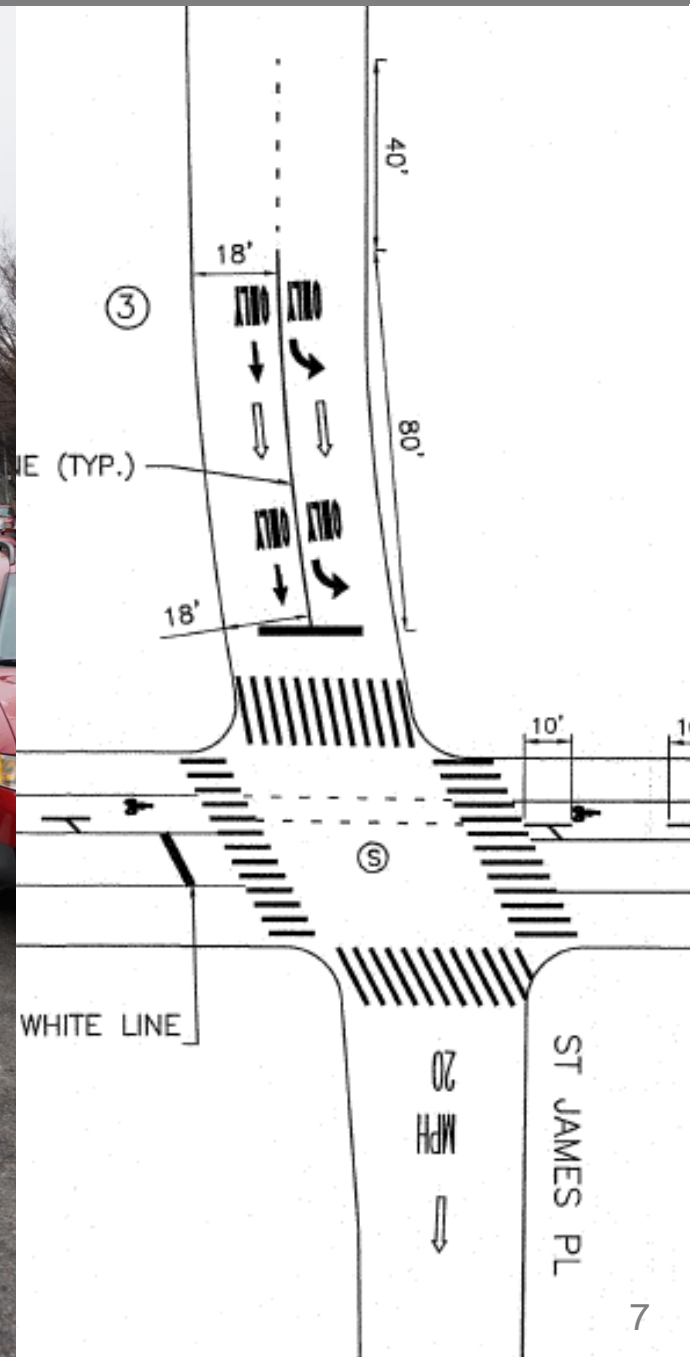




### 3. Design Refinements – Summer/ Fall 2016

#### Left Turn Lane on St James Pl

- Accommodates southbound traffic in shorter time with no change to parking or signals





### 3. Design Refinements – Summer/ Fall 2016

#### Curb Regulation Updates

- Loading zones added to commercial areas along corridor
- Ensures safe deliveries at curb, out of moving lane





### 3. Design Refinements– Summer/ Fall 2016

#### Off-peak Green Time at Classon Ave

- Additional green time given to Lafayette Ave at Classon Ave during off-peak hours
- Improves flow on Lafayette Ave without impacting peak hour traffic on Classon Ave





## 4. Data Comparison

### Travel Time Comparison

- Little to no impact on travel times during PM rush and overnight
  - Less than 15 second increase in travel time during PM rush (3pm-7pm)
  - 6-7 second increase in travel time evening/overnight (7pm-6am)
- Minor impact during AM and midday
  - Less than 45 second increase in travel time during morning and mid-day (6am-3pm),

B38 Mid-Week Travel Time on Lafayette Ave from Fulton St to Classon Ave				
	Before Implementation 5/10/16-5/19/16	After Implementation 11/8/16-11/16/16		
TIME PERIOD	Travel Time (m:ss)	Travel Time (m:ss)	Travel Time Change (m:ss)	Travel Time Change (Percent)
0:00-6:00	3:44	3:50	0:06	3%
6:00-10:00	5:37	6:21	0:44	13%
10:00-15:00	5:25	6:01	0:36	11%
15:00-19:00	7:17	7:32	0:14	3%
19:00-0:00	6:03	6:10	0:07	2%

Times include B38 Limited and Local service. Limited service occurs between 7:50am and 10:04pm. Before averages consist of 1,188 individual bus trips. After averages consist of 942 individual bus trips



# LAFAYETTE AVE VOLUMES

## Peak Hour Traffic Volumes (at Cumberland St)

Peak Hour	Before	After
AM	467	398
PM	611	640

Before counts taken 1/6/15-1/12/15

After counts taken 9/26/16-10/4/16

Corridor continues to process similar  
numbers of vehicles in the peak hour

## 12-hour Bike Counts (Weekday)

**Before: 577**

**After: 671**

Before counts taken 5/14/2015

After counts taken 9/27/16





# LAFAYETTE AVE SPEEDS

## Mid-Day Traffic Speeds (at Grand St)

	Exceeding Speed Limit
Before	28%
After	7%

Before counts taken January 2016

After counts taken March 2017

Speeding has decreased as travel times remain stable.

Count location is near site of building construction which may impact speeds





Questions?  
**THANK YOU!**



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